

UNITED STATES DEPARTMENT OF COMMERCE

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR		ATTORNEY DOCKETAGO.		
09/759,429	5 01/12/01	RICE	B	18721-5695		
000758 FENWICK & WEST LLP TWO PALO ALTO SQUARE		TM01/0606		EXAMINER		
			CANG	CANGIALOSI.S		
			ART UNIT	PAPER NUMBER		
PALO ALTO C	CA 94306		2661	·		
				06/06/01		

Please find below and/or attached an Office communication concerning this application or proceeding.

Commissioner of Patents and Trademarks

,	Application No.		Applicant(s)					
Office Action Summary	09/759,425		RICE, BART F.					
Office Action Summary	Examiner		Art Unit					
	Salvatore Cangialo	osi	2661					
The MAILING DATE of this communication appe Period for Reply	ars on the cover sh	eet with the co	rrespondence ad	ldress				
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period w Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b). Status	36 (a). In no event, however within the statutory minim vill apply and will expire SIX cause the application to b	er, may a reply be timum of thirty (30) days ((6) MONTHS from the come ABANDONED	nely filed will be considered tim he mailing date of this 0 (35 U.S.C. § 133)	communication.				
1) Responsive to communication(s) filed on 14 M	<u> March 2001</u> .							
2a) ☐ This action is FINAL . 2b) ☑ Thi	is action is non-fina	al.						
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.								
Disposition of Claims								
4)⊠ Claim(s) <u>2-4</u> is/are pending in the application.								
4a) Of the above claim(s) is/are withdray	vn from considerat	ion.						
5) Claim(s) is/are allowed.								
6)⊠ Claim(s) <u>2-4</u> is/are rejected.								
7) Claim(s) is/are objected to.								
8) Claims are subject to restriction and/or	election requireme	ent.	·					
Application Papers								
9) The specification is objected to by the Examine	er.							
10) The drawing(s) filed on is/are objected to by the Examiner.								
11) ☐ The proposed drawing correction filed on is: a) ☐ approved b) ☐ disapproved.								
12) The oath or declaration is objected to by the Ex	xaminer.							
Priority under 35 U.S.C. § 119								
13) Acknowledgment is made of a claim for foreign	priority under 35 t	J.S.C. ≬ 119(a)	-(d) or (f).					
a) All b) Some * c) None of:								
1. Certified copies of the priority documents have been received.								
2. Certified copies of the priority documents have been received in Application No								
3. Copies of the certified copies of the priority documents have been received in this National Stage								
application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.								
14) Acknowledgement is made of a claim for domestic priority under 35 U.S.C. § 119(e).								
Attachment(s)								
 15) ⊠ Notice of References Cited (PTO-892) 16) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948) 17) ☑ Information Disclosure Statement(s) (PTO-1449) Paper No(s) 3 	19) 🔲		y (PTO-413) Paper Patent Application (

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1. 35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

the claimed invention is directed to non-statutory subject matter.

Claims 2-51 are rejected under 35 U.S.C. 101 because the claims are drawn to non-statutory subject matter because signals are outside the four statutory classes of invention. Signals are neither a manufacture nor a composition of matter as appellant alleges but a transitory emanation of a previously patented apparatus and method. Further certain of the claims, e.g. claim 8, attempt to tie these emanation to a specific process or apparatus. Once a signal has left a transmitter, nothing in that signal can tie it to a specific process or apparatus out of the plurality of processes or apparatuses which could have produced it, hence those limitations are meaningless. The appellant has produced no evidence to the contrary. attempt to patent signals in free space is akin to patenting an audio or television program or any other signal in free space after transmission but before reception. There is no reason why these transitory and ephemeral emanations should be included in the four statutory classes of invention.

What is patentable? Despite the request by the applicant in the parent case that the Examiner provide authority for a

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holding that transitory emanations which can exist in the United States for no more than a two hundredths of a second(Divide width of United States by the speed of light), the appellant has been unable to cite any authority stating that signals per se are included within the four statutory categories of invention. Since competent authority is silent, the decision with respect to this case will set useful precedent for others to follow. Any signal in free space is transitory, ephemeral and not useful without transmission or reception. It is a short lived intermediate having no utility in and of itself without the process and apparatus of transmission or reception. The examiner respectfully suggests that they are the later and hence not statutory. The Board of appeals has previously agreed with the Examiner in the affirmance dated 3/24/99. At the bottom of page 18 of the decision in the parent case, the Board goes on to say "Even if the signal were in a wire, which requires the movement of physical matter such as electrons, the signal is the propagating disturbance in the medium, not the medium itself. Therefore we cannot agree with appellants argument that the claimed subject matter fits within the category of composition of matter". The addition of the term electromagnetic is merely descriptive of the type of signal and the signal remains disembodied nonetheless. There is no media on which the signal is embodied. It remains unpatentable.

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3. The following is a quotation of 35 U.S.C. § 103 which forms the basis for all obviousness rejections set forth in this Office action:

A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Subject matter developed by another person, which qualifies as prior art only under subsection (f) or (g) of section 102 of this title, shall not preclude patentability under this section where the subject matter and the claimed invention were, at the time the invention was made, owned by the same person or subject to an obligation of assignment to the same person.

4. Claims 2-4 are rejected under 35 U.S.C. § 103 as being unpatentable over Hamatsu et al or Short et al.

Regarding claims 2-4, Hamatsu et al or Short et al (See Fig. 1 of either) disclose a composite spreading code produced from shift registers substantially as claimed. The differences between the above and the claimed invention is the absence of specifics of the carrier wave. At. Col. 5, lines 45-50 of Short et al, it is stated that the transmission can be either AM or Fm. It is obvious that either are typically sinusoids. It would have been obvious to the person having ordinary skill in this art to provide a similar arrangement for Hamatsu et al or Short et al because it is conventional and standard practice to

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employ a sinusoidal carrier for composite spreading signals and these components are no more than the conventional equivalents of what is disclosed in the primary items of evidence. The deficiencies of the art with respect to some of the dependent claims deal with the conventional spread spectrum communication protocols.

Any inquiry concerning this communication should be directed to Salvatore Cangialosi at telephone number (703) 305-1837.

SALVATURE CANGIALOS
PRIMARY EXAMINER
ART UNIT 222

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